SUBJECT INDEX

Activated sludge

Feasibility Study on Freeze/Thaw Conditioning of Pulp Mill Waste Activated Sludge, Philip J. Parker and Anthony G. Collins, CR Sept. 97, p245-250.

Aggregates

Frost Susceptibility of Crushed Glass Used as Construction Aggregate, Karen S. Henry and Susan Hunnewell Morin, CR Dec. 97, p326-333.

Alignment

Core-Based SCB Fracture of Aligned First Year Sea Ice (Phase VI), E. S. LeClair, R. M. Adamson and J. P. Dempsey, CR Mar. 97, p45-58.

Core-Based SCB Fracture of Aligned First-Year Sea Ice (Phases III and IV), R. M. Adamson, L. H. Shapiro and J. P. Dempsey, CR Mar. 97, p30-44.

Antarctic

Evaluation of Bioremediation in Cold Regions, Mark A. Tumeo and David A. Guinn, CR Sept. 97, p221-231.

Arctic regions

Evaluation of Bioremediation in Cold Regions, Mark A. Tumeo and David A. Guinn, CR Sept. 97, p221-231.

ASCE Publications

Cold Regions Hydrology and Hydraulics: An ASCE Technical Council on Cold Regions Engineering Monograph edited by William L. Ryan and Randy D. Crissman, Robert Ettema, CR Sept. 97, p252-254.

Beams

Fatigue Behavior of Cantilever Beams of Saline Ice, Paul E. Bond and Patricia J. Langhorne, CR June 97, p99-112.

Bearing capacity

Comparison of Load Restriction Timings Determined Using FHWA Guidelines and Frost Tubes, Nazli Yesiller, Craig H. Benson and Peter J. Bosscher, CR Mar. 96, p6-24.

Biological treatment

Evaluation of Bioremediation in Cold Regions, Mark A. Tumeo and David A. Guinn, CR Sept. 97, p221-231.

Blasting

Practitioner's Forum, Kathleen D. White and Roger L. Kay, CR Sept. 97, p171-179.

Blocks

Low-Cost Ice-Control Structure, J. H. Lever, G. Gooch, A. Tuthill and C. Clark, CR Sept. 97, p198-220.

Breaking

Dusting Procedures for Advance Ice-Jam Mitigation Measures, Kathleen D. White and Roger L. Kay, CR June 97, p130-145.

Cantilevers

Fatigue Behavior of Cantilever Beams of Saline Ice, Paul E. Bond and Patricia J. Langhorne, CR June 97, p99-112.

Civil engineering

An Introduction to Frozen Ground Engineering by O.B. Andersland and B. Ladanyi, N. R. Morgenstern, CR June 97, p167-168.

Cold regions

Cold Regions Hydrology and Hydraulics: An ASCE Technical Council on Cold Regions Engineering Monograph edited by William L. Ryan and Randy D. Crissman, Robert Ettema, CR Sept. 97, p252-254.

Evaluation of Bioremediation in Cold Regions, Mark A. Tumeo and David A. Guinn, CR Sept. 97, p221-231.

Natural Sludge Dewatering. I: Combination of Natural Freezing, Thawing, and Drying as Methods, Daniel Hellström and Elisabeth Kvarnström, CR Mar. 97, p1-14.

Natural Sludge Dewatering. II: Thawing-Drying Process in Full-Scale Sludge Freezing Ditches, Daniel Hellström, CR Mar. 97, p15-29.

Composite materials

Low Temperature Strength and Notch Sensitivity of Glass Mat Polypropylene, J. Lindhagen and L. Berglund, CR Sept. 97, p180-197.

Compressive strength

Mechanical Properties of First-Year Sea Ice at Tarsiut Island, Denis Blanchet, Razek Abdelnour and George Comfort, CR Mar. 97, p59-83.

Constitutive equations

Thermoviscoelastic Constitutive Equations for Polycrystalline Ice, R. A. Schapery, P.E., CR June 97, p146-157.

Construction materials

Frost Susceptibility of Crushed Glass Used as Construction Aggregate, Karen S. Henry and Susan Hunnewell Morin, CR Dec. 97, p326-333.

Control structures

Low-Cost Ice-Control Structure, J. H. Lever, G. Gooch, A. Tuthill and C. Clark, CR Sept. 97, p198-220.

Core

Core-Based SCB Fracture of Aligned First Year Sea Ice (Phase VI), E. S. LeClair, R. M. Adamson and J. P. Dempsey, CR Mar. 97, p45-58.

Core-Based SCB Fracture of Aligned First-Year Sea Ice (Phases III and IV), R. M. Adamson, L. H. Shapiro and J. P. Dempsey, CR Mar. 97, p30-44.

Cost control

Low-Cost Ice-Control Structure, J. H. Lever, G. Gooch, A. Tuthill and C. Clark, CR Sept. 97, p198-220.

Creep

Linear Elastic and Viscoelastic Deformation Behavior of Ice, R. A. Schapery, CR Dec. 97, p271-290.

Thermoviscoelastic Constitutive Equations for Polycrystalline Ice, R. A. Schapery, P.E., CR June 97, p146-157.

SUBJECT INDEX

Activated sludge

Feasibility Study on Freeze/Thaw Conditioning of Pulp Mill Waste Activated Sludge, Philip J. Parker and Anthony G. Collins, CR Sept. 97, p245-250.

Aggregates

Frost Susceptibility of Crushed Glass Used as Construction Aggregate, Karen S. Henry and Susan Hunnewell Morin, CR Dec. 97, p326-333.

Alignment

Core-Based SCB Fracture of Aligned First Year Sea Ice (Phase VI), E. S. LeClair, R. M. Adamson and J. P. Dempsey, CR Mar. 97, p45-58.

Core-Based SCB Fracture of Aligned First-Year Sea Ice (Phases III and IV), R. M. Adamson, L. H. Shapiro and J. P. Dempsey, CR Mar. 97, p30-44.

Antarctic

Evaluation of Bioremediation in Cold Regions, Mark A. Tumeo and David A. Guinn, CR Sept. 97, p221-231.

Arctic regions

Evaluation of Bioremediation in Cold Regions, Mark A. Tumeo and David A. Guinn, CR Sept. 97, p221-231.

ASCE Publications

Cold Regions Hydrology and Hydraulics: An ASCE Technical Council on Cold Regions Engineering Monograph edited by William L. Ryan and Randy D. Crissman, Robert Ettema, CR Sept. 97, p252-254.

Beams

Fatigue Behavior of Cantilever Beams of Saline Ice, Paul E. Bond and Patricia J. Langhorne, CR June 97, p99-112.

Bearing capacity

Comparison of Load Restriction Timings Determined Using FHWA Guidelines and Frost Tubes, Nazli Yesiller, Craig H. Benson and Peter J. Bosscher, CR Mar. 96, p6-24.

Biological treatment

Evaluation of Bioremediation in Cold Regions, Mark A. Tumeo and David A. Guinn, CR Sept. 97, p221-231.

Blasting

Practitioner's Forum, Kathleen D. White and Roger L. Kay, CR Sept. 97, p171-179.

Blocks

Low-Cost Ice-Control Structure, J. H. Lever, G. Gooch, A. Tuthill and C. Clark, CR Sept. 97, p198-220.

Breaking

Dusting Procedures for Advance Ice-Jam Mitigation Measures, Kathleen D. White and Roger L. Kay, CR June 97, p130-145.

Cantilevers

Fatigue Behavior of Cantilever Beams of Saline Ice, Paul E. Bond and Patricia J. Langhorne, CR June 97, p99-112.

Civil engineering

An Introduction to Frozen Ground Engineering by O.B. Andersland and B. Ladanyi, N. R. Morgenstern, CR June 97, p167-168.

Cold regions

Cold Regions Hydrology and Hydraulics: An ASCE Technical Council on Cold Regions Engineering Monograph edited by William L. Ryan and Randy D. Crissman, Robert Ettema, CR Sept. 97, p252-254.

Evaluation of Bioremediation in Cold Regions, Mark A. Tumeo and David A. Guinn, CR Sept. 97, p221-231.

Natural Sludge Dewatering. I: Combination of Natural Freezing, Thawing, and Drying as Methods, Daniel Hellström and Elisabeth Kvarnström, CR Mar. 97, p1-14.

Natural Sludge Dewatering. II: Thawing-Drying Process in Full-Scale Sludge Freezing Ditches, Daniel Hellström, CR Mar. 97, p15-29.

Composite materials

Low Temperature Strength and Notch Sensitivity of Glass Mat Polypropylene, J. Lindhagen and L. Berglund, CR Sept. 97, p180-197.

Compressive strength

Mechanical Properties of First-Year Sea Ice at Tarsiut Island, Denis Blanchet, Razek Abdelnour and George Comfort, CR Mar. 97, p59-83.

Constitutive equations

Thermoviscoelastic Constitutive Equations for Polycrystalline Ice, R. A. Schapery, P.E., CR June 97, p146-157.

Construction materials

Frost Susceptibility of Crushed Glass Used as Construction Aggregate, Karen S. Henry and Susan Hunnewell Morin, CR Dec. 97, p326-333.

Control structures

Low-Cost Ice-Control Structure, J. H. Lever, G. Gooch, A. Tuthill and C. Clark, CR Sept. 97, p198-220.

Core

Core-Based SCB Fracture of Aligned First Year Sea Ice (Phase VI), E. S. LeClair, R. M. Adamson and J. P. Dempsey, CR Mar. 97, p45-58.

Core-Based SCB Fracture of Aligned First-Year Sea Ice (Phases III and IV), R. M. Adamson, L. H. Shapiro and J. P. Dempsey, CR Mar. 97, p30-44.

Cost control

Low-Cost Ice-Control Structure, J. H. Lever, G. Gooch, A. Tuthill and C. Clark, CR Sept. 97, p198-220.

Creep

Linear Elastic and Viscoelastic Deformation Behavior of Ice, R. A. Schapery, CR Dec. 97, p271-290.

Thermoviscoelastic Constitutive Equations for Polycrystalline Ice, R. A. Schapery, P.E., CR June 97, p146-157.

Crushing
Frost Susceptibility of Crushed Glass Used as Construction Aggregate, Karen S. Henry and Susan Hunnewell Morin, CR Dec. 97, p326-333.

Cyclic loads
Thermoviscoelastic Constitutive Equations for Polycrystalline Ice, R. A. Schapery, P.E., CR June 97, p146-157.

Deformation
Linear Elastic and Viscoelastic Deformation Behavior of Ice, R. A. Schapery, CR Dec. 97, p271-290.

Dewatering
Feasibility Study on Freeze/Thaw Conditioning of Pulp Mill Waste Activated Sludge, Philip J. Parker and Anthony G. Collins, CR Sept. 97, p245-250.

Natural Sludge Dewatering. I: Combination of Natural Freezing, Thawing, and Drying as Methods, Daniel Hellström and Elisabeth Kvarnström, CR Mar. 97, p1-14.

Natural Sludge Dewatering. II: Thawing-Drying Process in Full-Scale Sludge Freezing Ditches, Daniel Hellström, CR Mar. 97, p15-29.

Dust
Dusting Procedures for Advance Ice-Jam Mitigation Measures, Kathleen D. White and Roger L. Kay, CR June 97, p130-145.

Elasticity
Linear Elastic and Viscoelastic Deformation Behavior of Ice, R. A. Schapery, CR Dec. 97, p271-290.

Moving Loads on Ice Plates by V.A. Squire, R.J. Hosking, A.D. Kerr, P.J. Langhorne, S. Beltaos, CR June 97, p168-169.

Fatigue
Fatigue Behavior of Cantilever Beams of Saline Ice, Paul E. Bond and Patricia J. Langhorne, CR June 97, p99-112.

Finite element method
Prediction of Pavement Response during Freezing and Thawing Using Finite Element Approach, Erik Simonsen, Vincent C. Janoo and Ulf Isacsson, CR Dec. 97, p308-324.

Flexible pavements
Comparison of Load Restriction Timings Determined Using FHWA Guidelines and Frost Tubes, Nazli Yesiller, Craig H. Benson and Peter J. Bosscher, CR Mar. 96, p6-24.

Flexural strength
Fatigue Behavior of Cantilever Beams of Saline Ice, Paul E. Bond and Patricia J. Langhorne, CR June 97, p99-112.

Mechanical Properties of First-Year Sea Ice at Tarsiut Island, Denis Blanchet, Razek Abdelnour and George Comfort, CR Mar. 97, p59-83.

Flood control
Dusting Procedures for Advance Ice-Jam Mitigation Measures, Kathleen D. White and Roger L. Kay, CR June 97, p130-145.

Flood Management
Low-Cost Ice-Control Structure, J. H. Lever, G. Gooch, A. Tuthill and C. Clark, CR Sept. 97, p198-220.

Flooding
Practitioner's Forum, Kathleen D. White and Roger L. Kay, CR Sept. 97, p171-179.

Fracture mechanics
Core-Based SCB Fracture of Aligned First Year Sea Ice (Phase VI), E. S. LeClair, R. M. Adamson and J. P. Dempsey, CR Mar. 97, p45-58.

Core-Based SCB Fracture of Aligned First-Year Sea Ice (Phases III and IV), R. M. Adamson, L. H. Shapiro and J. P. Dempsey, CR Mar. 97, p30-44.

Freeze-thaw cycle
Feasibility Study on Freeze/Thaw Conditioning of Pulp Mill Waste Activated Sludge, Philip J. Parker and Anthony G. Collins, CR Sept. 97, p245-250.

Freeze-thaw durability
Comparison of Load Restriction Timings Determined Using FHWA Guidelines and Frost Tubes, Nazli Yesiller, Craig H. Benson and Peter J. Bosscher, CR Mar. 96, p6-24.

Freezing
Frost Susceptibility of Crushed Glass Used as Construction Aggregate, Karen S. Henry and Susan Hunnewell Morin, CR Dec. 97, p326-333.

Ground Freezing in Practice by J. S. Harris, Orlando B. Andersland, CR Sept. 97, p251-252.

Natural Sludge Dewatering. I: Combination of Natural Freezing, Thawing, and Drying as Methods, Daniel Hellström and Elisabeth Kvarnström, CR Mar. 97, p1-14.

Natural Sludge Dewatering. II: Thawing-Drying Process in Full-Scale Sludge Freezing Ditches, Daniel Hellström, CR Mar. 97, p15-29.

Prediction of Pavement Response during Freezing and Thawing Using Finite Element Approach, Erik Simonsen, Vincent C. Janoo and Ulf Isacsson, CR Dec. 97, p308-324.

Frost penetration
Frost Susceptibility of Crushed Glass Used as Construction Aggregate, Karen S. Henry and Susan Hunnewell Morin, CR Dec. 97, p326-333.

Frozen soils
An Introduction to Frozen Ground Engineering by O.B. Andersland and B. Ladanyi, N. R. Morgenstern, CR June 97, p167-168.

Full-scale tests
Natural Sludge Dewatering. I: Combination of Natural Freezing, Thawing, and Drying as Methods, Daniel Hellström and Elisabeth Kvarnström, CR Mar. 97, p1-14.

Natural Sludge Dewatering. II: Thawing-Drying Process in Full-Scale Sludge Freezing Ditches, Daniel Hellström, CR Mar. 97, p15-29.

Gates
Modeling Ice Passage at Starved Rock Lock and Dam on Illinois Waterway, Andrew Tuthill and Gordon Gooch, CR Sept. 97, p232-243.

Glass
Frost Susceptibility of Crushed Glass Used as Construction Aggregate, Karen S. Henry and Susan Hunnewell Morin, CR Dec. 97, p326-333.

Glass fibers

Low Temperature Strength and Notch Sensitivity of Glass Mat Polypropylene, J. Lindhagen and L. Berglund, CR Sept. 97, p180-197.

Graduate study

An Introduction to Frozen Ground Engineering by O.B. Andersland and B. Ladanyi, N. R. Morgenstern, CR June 97, p167-168.

Ground-water pollution

Evaluation of Bioremediation in Cold Regions, Mark A. Tumeo and David A. Guinn, CR Sept. 97, p221-231.

Highway engineering

Comparison of Load Restriction Timings Determined Using FHWA Guidelines and Frost Tubes, Nazli Yesiller, Craig H. Benson and Peter J. Bosscher, CR Mar. 96, p6-24.

Highway maintenance

Low-Rate Ice-Scraping Tests, Wilfrid A. Nixon and Darien DeJong, CR June 97, p159-166.

Hydraulic engineering

Cold Regions Hydrology and Hydraulics: An ASCE Technical Council on Cold Regions Engineering Monograph edited by William L. Ryan and Randy D. Crissman, Robert Ettema, CR Sept. 97, p252-254.

Hydraulic models

Modeling Ice Passage at Starved Rock Lock and Dam on Illinois Waterway, Andrew Tuthill and Gordon Gooch, CR Sept. 97, p232-243.

Hydrocarbons

Evaluation of Bioremediation in Cold Regions, Mark A. Tumeo and David A. Guinn, CR Sept. 97, p221-231.

Hydroelectric powerplants

A Numerical Study on Ice Transport in the Vicinity of Niagara River Hydropower Intakes, Junshan Su, Hung Tao Shen and Randy D. Crissman, CR Dec. 97, p255-270.

Hydrology

Cold Regions Hydrology and Hydraulics: An ASCE Technical Council on Cold Regions Engineering Monograph edited by William L. Ryan and Randy D. Crissman, Robert Ettema, CR Sept. 97, p252-254.

Ice

Cold Regions Hydrology and Hydraulics: An ASCE Technical Council on Cold Regions Engineering Monograph edited by William L. Ryan and Randy D. Crissman, Robert Ettema, CR Sept. 97, p252-254.

Concept of Effective Strain Rate: Different Approaches, Dmitri G. Matskevitch, CR June 97, p113-129.

Fatigue Behavior of Cantilever Beams of Saline Ice, Paul E. Bond and Patricia J. Langhorne, CR June 97, p99-112.

Linear Elastic and Viscoelastic Deformation Behavior of Ice, R. A. Schapery, CR Dec. 97, p271-290.

Mechanical Properties of First-Year Sea Ice at Tarsiut Island, Denis Blanchet, Razek Abdelnour and George Comfort, CR Mar. 97, p59-83.

Modeling Ice Passage at Starved Rock Lock and Dam on Illinois Waterway, Andrew Tuthill and Gordon Gooch, CR Sept. 97, p232-243.

Moving Loads on Ice Plates by V.A. Squire, R.J. Hosking, A.D. Kerr, P.J. Langhorne, S. Beltaos, CR June 97, p168-169.

Ice control

Low-Cost Ice-Control Structure, J. H. Lever, G. Gooch, A. Tuthill and C. Clark, CR Sept. 97, p198-220.

Ice cover

Low-Rate Ice-Scraping Tests, Wilfrid A. Nixon and Darien DeJong, CR June 97, p159-166.

Moving Loads on Ice Plates by V.A. Squire, R.J. Hosking, A.D. Kerr, P.J. Langhorne, S. Beltaos, CR June 97, p168-169.

Ice flow

Modeling Ice Passage at Starved Rock Lock and Dam on Illinois Waterway, Andrew Tuthill and Gordon Gooch, CR Sept. 97, p232-243.

Ice forces

Concept of Effective Strain Rate: Different Approaches, Dmitri G. Matskevitch, CR June 97, p113-129.

Ice jams

Dusting Procedures for Advance Ice-Jam Mitigation Measures, Kathleen D. White and Roger L. Kay, CR June 97, p130-145.

Low-Cost Ice-Control Structure, J. H. Lever, G. Gooch, A. Tuthill and C. Clark, CR Sept. 97, p198-220.

A Numerical Study on Ice Transport in the Vicinity of Niagara River Hydropower Intakes, Junshan Su, Hung Tao Shen and Randy D. Crissman, CR Dec. 97, p255-270.

Practitioner's Forum, Kathleen D. White and Roger L. Kay, CR Sept. 97, p171-179.

Ice loads

Moving Loads on Ice Plates by V.A. Squire, R.J. Hosking, A.D. Kerr, P.J. Langhorne, S. Beltaos, CR June 97, p168-169.

Ice mechanics

Low-Rate Ice-Scraping Tests, Wilfrid A. Nixon and Darien DeJong, CR June 97, p159-166.

Thermoviscoelastic Constitutive Equations for Polycrystalline Ice, R. A. Schapery, P.E., CR June 97, p146-157.

Ice sheets

Core-Based SCB Fracture of Aligned First Year Sea Ice (Phase VI), E. S. LeClair, R. M. Adamson and J. P. Dempsey, CR Mar. 97, p45-58.

Core-Based SCB Fracture of Aligned First-Year Sea Ice (Phases III and IV), R. M. Adamson, L. H. Shapiro and J. P. Dempsey, CR Mar. 97, p30-44.

Fatigue Behavior of Cantilever Beams of Saline Ice, Paul E. Bond and Patricia J. Langhorne, CR June 97, p99-112.

Intakes

A Numerical Study on Ice Transport in the Vicinity of Niagara River Hydropower Intakes, Junshan Su, Hung Tao Shen and Randy D. Crissman, CR Dec. 97, p255-270.

Interactions

Concept of Effective Strain Rate: Different Approaches, Dmitri G. Matskevitch, CR June 97, p113-129.

Loads

Moving Loads on Ice Plates by V.A. Squire, R.J. Hosking, A.D. Kerr, P.J. Langhorne, S. Beltaos, CR June 97, p168-169.

Locks

Modeling Ice Passage at Starved Rock Lock and Dam on Illinois Waterway, Andrew Tuthill and Gordon Gooch, CR Sept. 97, p232-243.

Mechanical properties

Low Temperature Strength and Notch Sensitivity of Glass Mat Polypropylene, J. Lindhagen and L. Berglund, CR Sept. 97, p180-197.

Mechanical Properties of First-Year Sea Ice at Tarsiut Island, Denis Blanchet, Razek Abdelnour and George Comfort, CR Mar. 97, p59-83.

Models

Prediction of Temperature and Moisture Changes in Pavement Structures, Erik Simonsen, Vincent C. Janoo and Ulf Isacsson, CR Dec. 97, p291-307.

Navigation

Modeling Ice Passage at Starved Rock Lock and Dam on Illinois Waterway, Andrew Tuthill and Gordon Gooch, CR Sept. 97, p232-243.

Niagara River

A Numerical Study on Ice Transport in the Vicinity of Niagara River Hydropower Intakes, Junshan Su, Hung Tao Shen and Randy D. Crissman, CR Dec. 97, p255-270.

Nonlinear analysis

Thermoviscoelastic Constitutive Equations for Polycrystalline Ice, R. A. Schapery, P.E., CR June 97, p146-157.

Notch sensitivity

Low Temperature Strength and Notch Sensitivity of Glass Mat Polypropylene, J. Lindhagen and L. Berglund, CR Sept. 97, p180-197.

Ocean engineering

Fatigue Behavior of Cantilever Beams of Saline Ice, Paul E. Bond and Patricia J. Langhorne, CR June 97, p99-112.

Ocean environments

Core-Based SCB Fracture of Aligned First Year Sea Ice (Phase VI), E. S. LeClair, R. M. Adamson and J. P. Dempsey, CR Mar. 97, p45-58.

Pavement condition

Prediction of Temperature and Moisture Changes in Pavement Structures, Erik Simonsen, Vincent C. Janoo and Ulf Isacsson, CR Dec. 97, p291-307.

Pavement deflections

Prediction of Pavement Response during Freezing and Thawing Using Finite Element Approach, Erik Simonsen, Vincent C. Janoo and Ulf Isacsson, CR Dec. 97, p308-324.

Pavements

Prediction of Pavement Response during Freezing and Thawing Using Finite Element Approach, Erik Simonsen, Vincent C. Janoo and Ulf Isacsson, CR Dec. 97, p308-324.

Prediction of Temperature and Moisture Changes in Pavement Structures, Erik Simonsen, Vincent C. Janoo and Ulf Isacsson, CR Dec. 97, p291-307.

Permafrost

An Introduction to Frozen Ground Engineering by O.B. Andersland and B. Ladanyi, N. R. Morgenstern, CR June 97, p167-168.

Plane strain

Mechanical Properties of First-Year Sea Ice at Tarsiut Island, Denis Blanchet, Razek Abdelnour and George Comfort, CR Mar. 97, p59-83.

Plastics

Low Temperature Strength and Notch Sensitivity of Glass Mat Polypropylene, J. Lindhagen and L. Berglund, CR Sept. 97, p180-197.

Plates

Moving Loads on Ice Plates by V.A. Squire, R.J. Hosking, A.D. Kerr, P.J. Langhorne, S. Beltaos, CR June 97, p168-169.

Polycrystalline

Linear Elastic and Viscoelastic Deformation Behavior of Ice, R. A. Schapery, CR Dec. 97, p271-290.

Thermoviscoelastic Constitutive Equations for Polycrystalline Ice, R. A. Schapery, P.E., CR June 97, p146-157.

Publications

An Introduction to Frozen Ground Engineering by O.B. Andersland and B. Ladanyi, N. R. Morgenstern, CR June 97, p167-168.

Moving Loads on Ice Plates by V.A. Squire, R.J. Hosking, A.D. Kerr, P.J. Langhorne, S. Beltaos, CR June 97, p168-169.

Remedial action

Evaluation of Bioremediation in Cold Regions, Mark A. Tumeo and David A. Guinn, CR Sept. 97, p221-231.

Reviews

An Introduction to Frozen Ground Engineering by O.B. Andersland and B. Ladanyi, N. R. Morgenstern, CR June 97, p167-168.

Rivers

Dusting Procedures for Advance Ice-Jam Mitigation Measures, Kathleen D. White and Roger L. Kay, CR June 97, p130-145.

Salinity

Fatigue Behavior of Cantilever Beams of Saline Ice, Paul E. Bond and Patricia J. Langhorne, CR June 97, p99-112.

Scrapers

Low-Rate Ice-Scraping Tests, Wilfrid A. Nixon and Darien DeJong, CR June 97, p159-166.

Seasonal variations

Comparison of Load Restriction Timings Determined Using FHWA Guidelines and Frost Tubes, Nazli Yesiller, Craig H. Benson and Peter J. Bosscher, CR Mar. 96, p6-24.

Settlement analysis

Feasibility Study on Freeze/Thaw Conditioning of Pulp Mill Waste Activated Sludge, Philip J. Parker and Anthony G. Collins, CR Sept. 97, p245-250.

Sludge

Feasibility Study on Freeze/Thaw Conditioning of Pulp Mill Waste Activated Sludge, Philip J. Parker and Anthony G. Collins, CR Sept. 97, p245-250.

Sludge drying

Natural Sludge Dewatering. I: Combination of Natural Freezing, Thawing, and Drying as Methods, Daniel Hellström and Elisabeth Kvarnström, CR Mar. 97, p1-14.

Natural Sludge Dewatering. II: Thawing-Drying Process in Full-Scale Sludge Freezing Ditches, Daniel Hellström, CR Mar. 97, p15-29.

Sludge treatment

Feasibility Study on Freeze/Thaw Conditioning of Pulp Mill Waste Activated Sludge, Philip J. Parker and Anthony G. Collins, CR Sept. 97, p245-250.

Snow cover

Low-Rate Ice-Scraping Tests, Wilfrid A. Nixon and Darien DeJong, CR June 97, p159-166.

Soil water

Prediction of Temperature and Moisture Changes in Pavement Structures, Erik Simonsen, Vincent C. Janoo and Ulf Isacsson, CR Dec. 97, p291-307.

Soils

Evaluation of Bioremediation in Cold Regions, Mark A. Tumeo and David A. Guinn, CR Sept. 97, p221-231.

Speed

Moving Loads on Ice Plates by V.A. Squire, R.J. Hosking, A.D. Kerr, P.J. Langhorne, S. Beltaos, CR June 97, p168-169.

Stiffness

Prediction of Pavement Response during Freezing and Thawing Using Finite Element Approach, Erik Simonsen, Vincent C. Janoo and Ulf Isacsson, CR Dec. 97, p308-324.

Strain rate

Concept of Effective Strain Rate: Different Approaches, Dmitri G. Matskevitch, CR June 97, p113-129.

Strength

Low Temperature Strength and Notch Sensitivity of Glass Mat Polypropylene, J. Lindhagen and L. Berglund, CR Sept. 97, p180-197.

Structures

Concept of Effective Strain Rate: Different Approaches, Dmitri G. Matskevitch, CR June 97, p113-129.

Students

An Introduction to Frozen Ground Engineering by O.B. Andersland and B. Ladanyi, N. R. Morgenstern, CR June 97, p167-168.

Sweden

Natural Sludge Dewatering. I: Combination of Natural Freezing, Thawing, and Drying as Methods, Daniel Hellström and Elisabeth Kvarnström, CR Mar. 97, p1-14.

Natural Sludge Dewatering. II: Thawing-Drying Process in Full-Scale Sludge Freezing Ditches, Daniel Hellström, CR Mar. 97, p15-29.

Systems

Ground Freezing in Practice by J. S. Harris, Orlando B. Andersland, CR Sept. 97, p251-252.

Temperature

Low Temperature Strength and Notch Sensitivity of Glass Mat Polypropylene, J. Lindhagen and L. Berglund, CR Sept. 97, p180-197.

Thermoviscoelastic Constitutive Equations for Polycrystalline Ice, R. A. Schapery, P.E., CR June 97, p146-157.

Temperature effects

Prediction of Temperature and Moisture Changes in Pavement Structures, Erik Simonsen, Vincent C. Janoo and Ulf Isacsson, CR Dec. 97, p291-307.

Tensile strength

Core-Based SCB Fracture of Aligned First Year Sea Ice (Phase VI), E. S. LeClair, R. M. Adamson and J. P. Dempsey, CR Mar. 97, p45-58.

Core-Based SCB Fracture of Aligned First-Year Sea Ice (Phases III and IV), R. M. Adamson, L. H. Shapiro and J. P. Dempsey, CR Mar. 97, p30-44.

Tests

Core-Based SCB Fracture of Aligned First-Year Sea Ice (Phases III and IV), R. M. Adamson, L. H. Shapiro and J. P. Dempsey, CR Mar. 97, p30-44.

Thawing

Natural Sludge Dewatering. II: Thawing-Drying Process in Full-Scale Sludge Freezing Ditches, Daniel Hellström, CR Mar. 97, p15-29.

Prediction of Pavement Response during Freezing and Thawing Using Finite Element Approach, Erik Simonsen, Vincent C. Janoo and Ulf Isacsson, CR Dec. 97, p308-324.

Prediction of Temperature and Moisture Changes in Pavement Structures, Erik Simonsen, Vincent C. Janoo and Ulf Isacsson, CR Dec. 97, p291-307.

Toughness

Core-Based SCB Fracture of Aligned First Year Sea Ice (Phase VI), E. S. LeClair, R. M. Adamson and J. P. Dempsey, CR Mar. 97, p45-58.

Core-Based SCB Fracture of Aligned First-Year Sea Ice (Phases III and IV), R. M. Adamson, L. H. Shapiro and J. P. Dempsey, CR Mar. 97, p30-44.

Two-dimensional models

A Numerical Study on Ice Transport in the Vicinity of Niagara River Hydropower Intakes, Junshan Su, Hung Tao Shen and Randy D. Crissman, CR Dec. 97, p255-270.

Viscoelasticity

Linear Elastic and Viscoelastic Deformation Behavior of Ice, R. A. Schapery, CR Dec. 97, p271-290.

Thermoviscoelastic Constitutive Equations for Polycrystalline Ice, R. A. Schapery, P.E., CR June 97, p146-157.

AUTHOR INDEX

Abdelnour, Razek
see Blanchet, Denis, CR Mar. 97, p59-83

Adamson, R. M.
Core-Based SCB Fracture of Aligned First-Year Sea Ice (Phases III and IV), with L. H. Shapiro and J. P. Dempsey, CR Mar. 97, p30-44
see LeClair, E. S., CR Mar. 97, p45-58

Andersland, Orlando B.
Ground Freezing in Practice by J. S. Harris, CR Sept. 97, p251-252
disc. (of Comparison of Load Restriction Timings Determined Using FHWA Guidelines and Frost Tubes, by Nazli Yesiller, Craig H. Benson and Peter J. Bosscher, CR Mar. 96, p6-24), CR Mar. 97, p85-88

Beltaos, S.
Moving Loads on Ice Plates by V.A. Squire, R.J. Hosking, A.D. Kerr, P.J. Langhorne, CR June 97, p168-169

Benson, Craig H.
see Yesiller, Nazli, CR Mar. 96, p6-24

Berglund, L.
see Lindhagen, J., CR Sept. 97, p180-197

Blanchet, Denis
Mechanical Properties of First-Year Sea Ice at Tarsiut Island, with Razek Abdelnour and George Comfort, CR Mar. 97, p59-83
disc: Ken Croasdale, CR Mar. 97, p89-93
disc: Jacqueline A. Richter-Menge and Erland M. Schulson, CR Mar. 97, p93-96
clo: CR Mar. 97, p97-98

Bond, Paul E.
Fatigue Behavior of Cantilever Beams of Saline Ice, with Patricia J. Langhorne, CR June 97, p99-112

Bosscher, Peter J.
see Yesiller, Nazli, CR Mar. 96, p6-24

Clark, C.
see Lever, J. H., CR Sept. 97, p198-220

Collins, Anthony G.
see Parker, Philip J., CR Sept. 97, p245-250

Comfort, George
see Blanchet, Denis, CR Mar. 97, p59-83

Crissman, Randy D.
see Su, Junshan, CR Dec. 97, p255-270

Croasdale, Ken
disc. (of Mechanical Properties of First-Year Sea Ice at Tarsiut Island, by Denis Blanchet, Razek Abdelnour and George Comfort, CR Mar. 97, p59-83), CR Mar. 97, p89-93

DeJong, Darien
see Nixon, Wilfrid A., CR June 97, p159-166

Dempsey, J. P.
see Adamson, R. M., CR Mar. 97, p30-44
see LeClair, E. S., CR Mar. 97, p45-58

Ettema, Robert
Cold Regions Hydrology and Hydraulics: An ASCE Technical Council on Cold Regions Engineering Monograph edited by William L. Ryan and Randy D. Crissman, CR Sept. 97, p252-254

Gooch, G.
see Lever, J. H., CR Sept. 97, p198-220

Gooch, Gordon
see Tuthill, Andrew, CR Sept. 97, p232-243

Guinn, David A.
see Tumeo, Mark A., CR Sept. 97, p221-231

Hellström, Daniel
Natural Sludge Dewatering. I: Combination of Natural Freezing, Thawing, and Drying as Methods, with Elisabeth Kvarnström, CR Mar. 97, p1-14
Natural Sludge Dewatering. II: Thawing-Drying Process in Full-Scale Sludge Freezing Ditches, CR Mar. 97, p15-29

Henry, Karen S.
Frost Susceptibility of Crushed Glass Used as Construction Aggregate, with Susan Hunnewell Morin, CR Dec. 97, p326-333

Isacsson, Ulf
see Simonsen, Erik, CR Dec. 97, p291-307
see Simonsen, Erik, CR Dec. 97, p308-324

Janoo, Vincent C.
see Simonsen, Erik, CR Dec. 97, p291-307
see Simonsen, Erik, CR Dec. 97, p308-324

Kay, Roger L.
see White, Kathleen D., CR June 97, p130-145
see White, Kathleen D., CR Sept. 97, p171-179

Kvarnström, Elisabeth
see Hellström, Daniel, CR Mar. 97, p1-14

Langhorne, Patricia J.
see Bond, Paul E., CR June 97, p99-112

LeClair, E. S.
Core-Based SCB Fracture of Aligned First Year Sea Ice (Phase VI), with R. M. Adamson and J. P. Dempsey, CR Mar. 97, p45-58

Lever, J. H.
Low-Cost Ice-Control Structure, with G. Gooch, A. Tuthill and C. Clark, CR Sept. 97, p198-220

Lindhagen, J.
Low Temperature Strength and Notch Sensitivity of Glass Mat Polypropylene, with L. Berglund, CR Sept. 97, p180-197

Matskevitch, Dmitri G.
Concept of Effective Strain Rate: Different Approaches, CR June 97, p113-129

Morgenstern, N. R.
An Introduction to Frozen Ground Engineering by O.B. Andersland and B. Ladanyi, CR June 97, p167-168

Morin, Susan Hunnewell
see Henry, Karen S., CR Dec. 97, p326-333

Nixon, Wilfrid A.
Low-Rate Ice-Scraping Tests, with Darien DeJong, CR June 97, p159-166

Parker, Philip J.
Feasibility Study on Freeze/Thaw Conditioning of Pulp Mill Waste Activated Sludge, with Anthony G. Collins, CR Sept. 97, p245-250

Richter-Menge, Jacqueline A.
disc. (of Mechanical Properties of First-Year Sea Ice at Tarsiut Island, by Denis Blanchet, Razek Abdelnour and George Comfort, CR Mar. 97, p59-83) with Erland M. Schulson, CR Mar. 97, p93-96

Schapery, R. A.
Linear Elastic and Viscoelastic Deformation Behavior of Ice, CR Dec. 97, p271-290

Schapery, R. A., P.E.
Thermoviscoelastic Constitutive Equations for Polycrystalline Ice, CR June 97, p146-157

Schulson, Erland M.
see Richter-Menge, Jacqueline A., (disc), CR Mar. 97, p59-83

Shapiro, L. H.
see Adamson, R. M., CR Mar. 97, p30-44

Shen, Hung Tao
see Su, Junshan, CR Dec. 97, p255-270

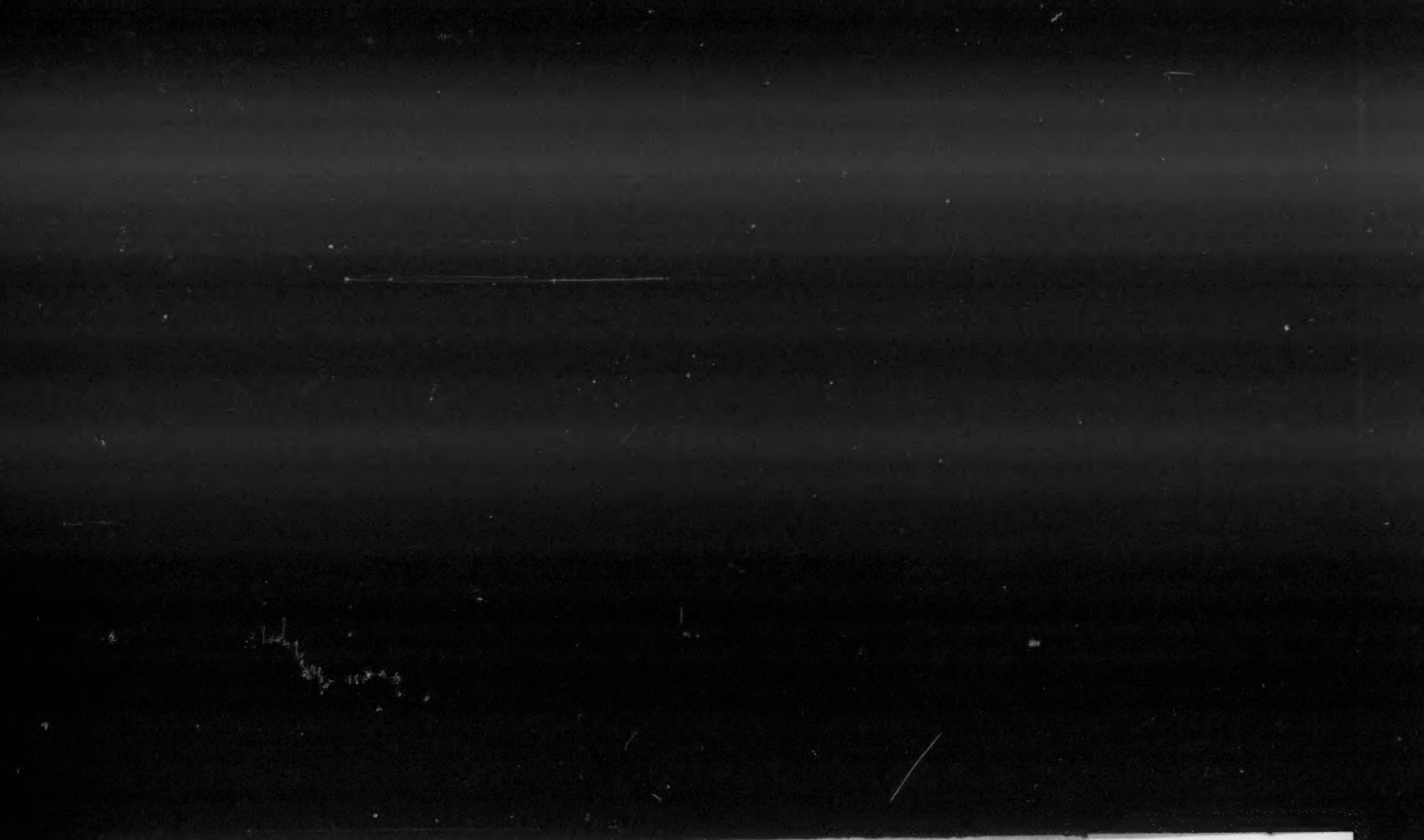
Simonsen, Erik
Prediction of Pavement Response during Freezing and Thawing Using Finite Element Approach, with Vincent C. Janoo and Ulf Isacsson, CR Dec. 97, p308-324
Prediction of Temperature and Moisture Changes in Pavement Structures, with Vincent C. Janoo and Ulf Isacsson, CR Dec. 97, p291-307

Su, Junshan
A Numerical Study on Ice Transport in the Vicinity of Niagara River Hydropower Intakes, with Hung Tao Shen and Randy D. Crissman, CR Dec. 97, p255-270

Tumeo, Mark A.
Evaluation of Bioremediation in Cold Regions, with David A. Guinn, CR Sept. 97, p221-231

Tuthill, A.
see Lever, J. H., CR Sept. 97, p198-220

Tuthill, Andrew
Modeling Ice Passage at Starved Rock Lock and Dam on Illinois Waterway, with Gordon Gooch, CR Sept. 97, p232-243

White, Kathleen D.
Dusting Procedures for Advance Ice-Jam Mitigation Measures, with Roger L. Kay, CR June 97, p130-145
Practitioner's Forum, with Roger L. Kay, CR Sept. 97, p171-179

Yesiller, Nazli
Comparison of Load Restriction Timings Determined Using FHWA Guidelines and Frost Tubes, with Craig H. Benson and Peter J. Bosscher, CR Mar. 96, p6-24
disc: Orlando B. Andersland, CR Mar. 97, p85-88
clo: CR Mar. 97, p88-89